**2**005/014

Application No.: 10/800,230

APR 2 622007et No.: TOW-067

## AMENDMENTS TO THE SPECIFICATION

On page 6, please replace line 2 with the following line:

(2)  $CH_4 + 2H_2O \rightarrow CO_2 + 4H_2$  (endothermic reaction)

On page 10, please replace the paragraph starting at line 18 with the following paragraph: The reformer 30 induces oxidation reaction  $CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$  (exothermic reaction) and fuel reforming reaction  $CH_4 + 2H_2O \rightarrow CO_2 + 4H_2$  (exothermic reaction) simultaneously.

On page 12, please replace the paragraph starting at line 10 with the following paragraph:

The conventional high temperature shifting reactor is not required. The simple can compact PSA mechanism 24 can be used e[[-]]fficiently for inducing the desired reforming reaction rapidly. The hydrogen-rich pure fuel gas can be produced efficiently.